Qty:

Thursday, 10/08/2006 10:00:02 AM

User:

Linda Lacelle

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 28118

Estimate Number

: 11923

P.O. Number

AIG:

This Issue

: 10/08/2006

S.O. No. : 12/12

Prsht Rev. First Issue

: NIA : 27699

: SMALL /MED FAB Type

Previous Run

Written By Checked & Approved By

Comment

Re-format EC 99.11.11

Drawing Name

: TUBE ASSEMBLY

Part Number

Drawing Number

: D2003101 D2003 REV B

Project Number **Drawing Revision**

: N/A

Material **Due Date** PW4:

: 21/08/2006

5 Um:

Each

06.08.10 3

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

M304TR0375W035

304 TUBING

Comment: Qty.:

1.1485 f(s)/Unit Total:

5.7425 f(s)

5.7965 f(s)

Cut: 13.13" long as per Dwg D2003

Material:3/8"Æ x 0.035" wall 6061-T6 tubing

Batch: 17 190 51

2.0

Comment: Qty.: 1.1593 f(s)/Unit Total:

> Cut: 13.25" long as per Dwg D2003 Material: M2650-6 Heat sleeve

Batch: 171752

Sleeve

FF 06.08.15

MS208196D

Comment: Qty.:

2.0000 Each(s)/Unit Total: 10.0000 Each(s)

Sleeve

Pick:

Qty Part Number

Description

2 MS20819-8็ป

Sleeve

FF 06.08.15

AN8186D

2.0000 Each(s)/Unit Total:

10.0000 Each(s)

Comment: Qty.: Nut

Pick:

Oty Part Number

Description

Batch

2 AN818-6D Nut

417651

Dart Ae	rospace	Ltd							:
W/O:			W	ORK ORDER CHANGES					- مر - مر
DATE	STEP	PR	OCEDURE CHA	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
-			,						

							,		
Part No	•	PAR #:	Fault Cate	egory: N	ICR: Yes	No DQ	A:	_ Date: _	
					QA: N	I/C Close	d:	_ Date: _	
NCR:			WORK ORD	ER NON-CONFORMANO	CE (NCF	₹)			
		Description of NC		Corrective Action Section B		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Section Date		Chief Eng	QC Inspector
•									

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approve

Date: Thursday, 10/08/2006 10:00:02 AM Linda Lacelle User: Customer: CU-DAR001 Dart Helicopters Services Job Number: 28118 Job Number: Seq. #: **Machine Or Operation:** D2182 5.0 Comment: Qty.: **Heat Shrink** Pick: **Qty Part Number** 1 D2182-045 Heat shrink SMALL FAB 1 6.0 7.0 QC5

Process Sheet

Drawing Name: TUBE ASSEMBLY

Part Number: D2003101

Description:

Heat Shrink

1.8750 f(s) 0.3750 f(s)/Unit Total:

Description

FF 06.08.15

SMALL & MEDIUM FAB RESOURCE 1

Comment: SMALL & MEDIUM FAB RESOURCE 1 Form tube as per template D2003-101

Assemble as per Dwg D2003

FF 06.00.10



INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

8.0 PACKAGING 1

DC



PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location:



DOCUMENT CONTROL

Al 06/08/16 E

Comment: DOCUMENT CONTROL

Inspection Level 21



Job Completion

9.0



11 060817

Dart Aerospace Ltd

	WORK ORDER CHANGES													
STEP	PROCEDURE CHANGE	В	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
	·													
_	STEP			STEP PROCEDURE CHANGE By	STEP PROCEDURE CHANGE By Date	STEP PROCEDURE CHANGE By Date Qty	STEP PROCEDURE CHANGE By Date Qty Chief Eng / Prod Mgr							

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date: 06/08/17
			QA: N/C	losed:	Date:

NCR:		W	ORK OR	DER NON-CONFORMA	NCE (NCR)			
		Description of NC		Corrective Action Section	n B	Verification	Approval Chief Eng	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		QC Inspector
0 8 -08.15	6	Tubbing did not flare Properly. Tubbing start flaring wrong side first	Menn	Destroy & replace	06.08.13 FF 06.08.13	060%-1c	0300	0608-16
*	i i							

NOTE: Date & initial all entries





DESIG	4	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	(FB)	APPROVED	DRAWING NO. REV. 8
4	45	1 4	D2003 SHEET 1 OF 2
DATE			TIŢLE SCALE
 99.0	6.08		206 CABIN HEATER TUBE ASSEMBLIES NTS
Α		90.04.09	NEW ISSUE
В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S;



		HEATSLEEVE LENGTH ¹	CUT LENGTH OF TUBE ²	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	DESC	MATERIAL ^{4/8/7}	VENDOR OR SPEC
P/N	TEMPLATE		0.00									WW-T-700/6
02003-001	T2003-001	5.2	6,00 8,12	ļ				2	2	TUBE ASS'Y TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W 6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7,3 9,8		-				2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	20.0	10.52 19.63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007 T2003-009	12.38	12.44	-				2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	33.31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 QD x 0.035 W	WW-T-700/6
D2003-011 D2003-013	T2003-011	12.7	13,54	 	ļ	-		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00	-		 		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	17.0	16.25	-				2	2	TUBE ASS'Y	6061-T6 0,375 OD x 0,035 W	WW-T-700/6
D2003-017	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-013	N/A	2.25			2	2			TUBE ASS'Y	6051-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-023	4.5	5.33	 		2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60	-		2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38	-		2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18.00	-		2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-031	T2003-031	14.6	15.38	2	2	_				TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W.	AISI 304
D2003-037	T2003-037	24.81	23,38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0,500 OD x 0,035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2		***************************************			TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	-2					TUBE ASS'Y	CRES 0,500 OD x 0,035 W	AISI 304
D2003-077	T2003-077	N/A	6,25		h			1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13.25	13.13			******		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00		************			2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60					2	٠2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25					-2	2	TUBE ASS'Y	5061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2		7.8	TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625			2	2		,	TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116	4.0	, .							HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0				1				HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0	***	150 M						HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16*	4.0	J.	X						HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-205	T2003-205	9.75	9.60	gitar 1	-			2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	VW-T-700/6
D2003-207	T2003-207	3.75	<i>,</i> 43.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
26.0												





DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APAROVED.		REV. B
46	1	D2003 SHEET 2	OF 2
DATE	,	TITLE	SCALE
99.06.08		206 CABIN HEATER TUBE ASSEMBLIES	NTS



Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

